

Amendments to the Claims

Please amend claims 32-38 as indicated in the listing of claims.

Please cancel claims 27, 31 and 39 without prejudice or disclaimer.

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-26 (Canceled).

Claim 27. (Canceled)

Claims 28-30 (Canceled).

Claim 31. (Canceled).

32. (Currently amended) ~~The~~ An optical irradiation device ~~according to claim 31 further~~ comprising one or more LEDs for emitting radiation, the one or more LEDs thermally connected to one or more heat pipes, a thermal connector positioned between connecting the one or more LEDs and the one or more heat pipes, said one or more heat pipes conducting heat away from the one or more LEDs.

33. (Currently amended) The optical irradiation device according to claim ~~31~~32 further comprising a fan or Peltier device proximate to the one or more heat pipes.

34. (Currently amended) The optical ~~device~~ irradiation device according to claim ~~31~~32 further comprising a heat sink in thermal contact with the one or more heat pipes.

35. (Currently amended) The optical irradiation device according to claim 33, further comprising a heat sink in thermal contact with the one or more heat pipes.

36. (Currently amended) The optical irradiation device according to claim ~~31~~32, wherein the one or more heat pipes provides a means for cooling the one or more LEDs such that the one or more LEDs are capable of being ~~thereby providing for the one or more LEDs to be driven to produce more radiation than the one or more LEDs would be~~ capable of without the one or more heat pipes.

37. (Currently amended) The optical irradiation device according to claim ~~31~~32, ~~further comprising~~ wherein the one or more LEDs comprise a plurality of LEDs formed into one or more clusters.

38. (Currently amended) The optical irradiation device according to claim ~~31~~32, ~~further comprising~~ wherein the one or more LEDs comprise a plurality of LEDs formed into one or more arrays.

39. (Canceled)